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APPLICANT : TORAY IND INC;

INVENTOR : OKASAKA HIDESADA;

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TITLE : POLYESTER FILM AND CAPACITOR PREPARED THEREFROM

ABSTRACT : PURPOSE: To obtain a polyester film low in dielectric loss at high temperatures and suitable for capacitors, etc., having a second-order transition temperature, a melt specific resistivity, a crystallinity, etc., each in a specified range and prepared by biaxially stretching a polymer based on PET.

CONSTITUTION: About 75-95wt.% polyethylene terephthalate is mixed with about 25-5wt.% other polymer (e.g., polyarylate or polycarbonate). The mixture is melt-extruded into an unstretched film and this film is biaxially stretched to obtain an oriented film, which is then heat-treated to obtain the purpose polyester film. This polyester film has a second-order transition temperature as measured with a scanning differential calorimeter $\geq 80^{\circ}\text{C}$, and a difference between the second-order transition temperature and the m.p. of $100-170^{\circ}\text{C}$, a melt specific resistivity $\geq 1 \times 10^8 \text{ cm}$ and a crystallinity of 8-25% as measured by X-ray diffractometry.

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